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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/601,679	06/24/2003	Noriyoshi Kurotsu	03500.017343	9528
5514 7590 04/25/2007 FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA			EXAMINER	
			DICKERSON, CHAD S	
NEW YORK, NY	10112		ART UNIT PAPER NUMBER 2625	
SHORTENED STATUTORY P	ERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
		10/601,679	KUROTSU, NORIYOSHI			
	Office Action Summary	Examiner	Art Unit			
		Chad Dickerson	2625			
Pariod fo	The MAILING DATE of this communication app	ears on the cover sheet with the	correspondence address			
Period fo		VIO OET TO EVENE A MONTH	(C) OD TUUDTY (20) DAYC			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONI	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 24 Ju	<u>une 2003</u> .				
2a)□	This action is FINAL. 2b)⊠ This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposit	ion of Claims					
4) 🖂	Claim(s) 1-17 is/are pending in the application					
,	4a) Of the above claim(s) is/are withdraw	wn from consideration.				
5)	Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>1-17</u> is/are rejected.		·			
	Claim(s) is/are objected to.		•			
8)	Claim(s) are subject to restriction and/o	r election requirement.				
Applicat	ion Papers					
-9)□	The specification is objected to by the Examine	er.				
10)	The drawing(s) filed on is/are: a) acc	epted or b)□ objected to by the	Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correct					
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	e Action or form PTO-152.			
Priority	under 35 U.S.C. § 119	•				
12)🖾	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	a)-(d) or (f).			
a)						
	1. Certified copies of the priority document	s have been received.				
	2. Certified copies of the priority document		·			
	3. Copies of the certified copies of the prio		ved in this National Stage			
•	application from the International Burea	•	vod			
· .	See the attached detailed Office action for a list	of the certified copies not receiv	ea.			
Attachme		A) [] 1-4	v (DTO 442)			
. —	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summar Paper No(s)/Mail [· ·			
3) X Info	rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date see attachment.	5) Notice of Informal 6) Other:	Patent Application			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1, 6 and 11-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Re claim 1: the claim recites the limitation "the basis" in line 6. There is insufficient antecedent basis for this limitation in the claim. It is suggested to change the phrase "the basis" to -- a basis --.

Re claim 6: the claim recites the limitation "the basis" in line 3 on page 30. There is insufficient antecedent basis for this limitation in the claim. It is suggested to change the phrase "the basis" to -- a basis --.

Re claim 11: the claim recites the limitation "the basis" in line 22. There is insufficient antecedent basis for this limitation in the claim. It is suggested to change the phrase "the basis" to -- a basis --.

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Re claim 11: the claim recites "a program product" in the preamble and this statement

renders the claim indefinite. The preamble of the claim is directed towards a program

product and the body of the claim is directed toward a process. These differing parts

fail to particularly point out whether the claim is directed towards a process or a program

product. A claim is treated as a program product when a computer program is recited in

conjunction with a physical structure. Claims 12-15 are also rejected since they depend

on a rejected claim. See MPEP § 2106.01.

Re claim 16: the claim recites the limitation "the basis" in line 20. There is insufficient

antecedent basis for this limitation in the claim. It is suggested to change the phrase

"the basis" to -- a basis --.

Appropriate correction is required.

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Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Murakami et al (U.S. Pat. No. 2001/0038461).

Re claim 1: Murakami et al discloses a printer controller that has a printer perform print processing on print jobs transmitted from a plurality of terminals, an image forming apparatus for performing print processing on the plurality of print jobs, and a terminal that transmits print jobs to the printer controller, comprising:

a changing unit (15A) for changing a priority of a job when proxy printing is executed (i.e. the changing unit (15A) changes the priority of the terminals that has associated print jobs with that terminal. The terminals have a priority level and that level can be the same or different from the priority level of the actual print jobs. If the priority levels in figure 16 changes, then the print job priority of figure 17 also changes. All of this occurs while other processing is inputting different print jobs in different priority levels within the buffer; see figs. 14-17; paragraphs [0147]- [0167]); and

an executing unit (14A) for executing a printing process on a basis of the priority changed by said changing unit (i.e. the print job processing unit determines the next print job to be processed based on the priority levels. Since the priority levels are

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changed to reflect the terminal and print jobs with the highest priority are printed, it is inherent that when a printing process occurs while the printer is free, a print process is executed on the job which has the highest level of priority; see fig. 19; paragraphs [0168]-[0187]).

Re claim 2: Murakami et al discloses an apparatus, wherein said proxy printing is executed by changing a queue of a print job (i.e. the print jobs in the system move up and down in priority and therefore, the print jobs also move up and down in the order in the buffer. The changing in the order in the buffer of what print job to be processed is analogous to the changing a queue of a print job, since a queue is a buffer where events are temporarily stored to be processed later in the system; see fig. 17-19; paragraphs [0154]-[0163] and [0175]-[0181]).

Re claim 3: Murakami et al discloses an apparatus, wherein said changing unit (15A) raises the priority (i.e. the priority changing unit (15A) performs the process of raising the priority level; see figs. 18-20; see paragraphs [0162]-[0170] and [0182]-[0190]).

Re claim 4: Murakami et al discloses an apparatus, wherein said changing unit (15A) changes the priority on the basis of reception time of a print job (i.e. when subtracting the reception time from the current time, the elapsed time can be calculated from that

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result. Then, the elapsed time is compared to certain reference times and if a certain condition is met, the priority level of the terminal, also the printing jobs associated with that terminal, is changed. Therefore, the changing of the priority level is based on the reception time of the print job and the elapsed time of the print job; see figs. 18-20; paragraphs [0156]-[0166]).

Re claim 5: Murakami et al discloses an apparatus, wherein when reception time of the job which is proxy-printed is earlier than that of a print job which has already existed, said changing unit raises the priority of the job which is proxy-printed (i.e. when it is calculated that the elapsed time is greater than a predetermined margin (TK2), a considerable amount of time has passed since the reception of a print job has been instructed. This condition is given the highest priority over a print job that has been instructed to be printed, but has been on the buffer waiting to be printed and has existed on the buffer to be printed for a short time. In figure 18, the reception time is used to calculate the elapsed time (tk). The elapsed time is used to calculate if a print job, based on the reception time and elapsed time, whether a priority level should be raised or not. The priority level is raised in comparison to the other print jobs waiting on the buffer to be processed as well; see figs. 18-20; paragraphs [0156]-[0167]).

Re claim 6: Murakami et al discloses a printer controller that has a printer perform print processing on print jobs transmitted from a plurality of terminals, an image forming

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apparatus for performing print processing on the plurality of print jobs, and a terminal that transmits print jobs to the printer controller, comprising:

a changing step of changing a priority of a job when proxy printing is executed (i.e. the changing unit (15A) changes the priority of the terminals that has associated print jobs with that terminal. The terminals have a priority level and that level can be the same or different from the priority level of the actual print jobs. If the priority levels in figure 16 changes, then the print job priority of figure 17 also changes. All of this occurs while other processing is inputting different print jobs in different priority levels within the buffer; see figs. 14-17; paragraphs [0147]- [0167]); and

an executing step of executing a printing process on the basis of the priority changed by said changing step (i.e. the print job processing unit determines the next print job to be processed based on the priority levels. Since the priority levels are changed to reflect the terminal and print jobs with the highest priority are printed, it is inherent that when a printing process occurs while the printer is free, a print process is executed on the job which has the highest level of priority; see fig. 19; paragraphs [0168]-[0187]).

Re claim 7: Murakami et al discloses a method, wherein said proxy printing is executed by changing a queue of a print job (i.e. the print jobs in the system move up and down in priority and therefore, the print jobs also move up and down in the order in the buffer.

The changing in the order in the buffer of what print job to be processed is analogous to

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the changing a queue of a print job, since a queue is a buffer where events are temporarily stored to be processed later in the system; see fig. 17-19; paragraphs [0154]-[0163] and [0175]-[0181]).

Re claim 8: Murakami et al discloses a method, wherein in said changing step, the priority is raised (i.e. the priority changing unit (15A) performs the process of raising the priority level; see figs. 18-20; see paragraphs [0162]-[0170] and [0182]-[0190]).

Re claim 9: Murakami et al discloses a method, wherein in said changing step, the priority is changed on the basis of reception time of a print job (i.e. when subtracting the reception time from the current time, the elapsed time can be calculated from that result. Then, the elapsed time is compared to certain reference times and if a certain condition is met, the priority level of the terminal, also the printing jobs associated with that terminal, is changed. Therefore, the changing of the priority level is based on the reception time of the print job and the elapsed time of the print job; see figs. 18-20; paragraphs [0156]-[0166]).

Re claim 10: Murakami et al discloses a method, wherein in said changing step, when reception time of the job which is proxy-printed is earlier than that of a print job which has already existed, the priority of the job which is proxy-printed is raised (i.e. when it is

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calculated that the elapsed time is greater than a predetermined margin (TK2), a considerable amount of time has passed since the reception of a print job has been instructed. This condition is given the highest priority over a print job that has been instructed to be printed, but has been on the buffer waiting to be printed and has existed on the buffer to be printed for a short time. In figure 18, the reception time is used to calculate the elapsed time (tk). The elapsed time is used to calculate if a print job, based on the reception time and elapsed time, whether a priority level should be raised or not. The priority level is raised in comparison to the other print jobs waiting on the buffer to be processed as well; see figs. 18-20; paragraphs [0156]-[0167]).

Re claim 11: Murakami et al discloses a printer controller that has a printer perform print processing on print jobs transmitted from a plurality of terminals, an image forming apparatus for performing print processing on the plurality of print jobs, and a terminal that transmits print jobs to the printer controller, comprising:

a changing step of changing a priority of a job when proxy printing is executed (i.e. the changing unit (15A) changes the priority of the terminals that has associated print jobs with that terminal. The terminals have a priority level and that level can be the same or different from the priority level of the actual print jobs. If the priority levels in figure 16 changes, then the print job priority of figure 17 also changes. All of this occurs while other processing is inputting different print jobs in different priority levels within the buffer; see figs. 14-17; paragraphs [0147]- [0167]); and

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an executing step of executing a printing process on the basis of the priority changed by said changing step (i.e. the print job processing unit determines the next print job to be processed based on the priority levels. Since the priority levels are changed to reflect the terminal and print jobs with the highest priority are printed, it is inherent that when a printing process occurs while the printer is free, a print process is executed on the job which has the highest level of priority; see fig. 19; paragraphs [0168]-[0187]).

Re claim 12: Murakami et al discloses a product, wherein said proxy printing is executed by changing a queue of a print job (i.e. the print jobs in the system move up and down in priority and therefore, the print jobs also move up and down in the order in the buffer. The changing in the order in the buffer of what print job to be processed is analogous to the changing a queue of a print job, since a queue is a buffer where events are temporarily stored to be processed later in the system; see fig. 17-19; paragraphs [0154]-[0163] and [0175]-[0181]).

Re claim 13: Murakami et al discloses a product, wherein in said changing step, the priority is raised (i.e. the priority changing unit (15A) performs the process of raising the priority level; see figs. 18-20; see paragraphs [0162]-[0170] and [0182]-[0190]).

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Re claim 14: Murakami et al discloses a product, wherein in said changing step, the priority is changed on the basis of reception time of a print job (i.e. when subtracting the reception time from the current time, the elapsed time can be calculated from that result. Then, the elapsed time is compared to certain reference times and if a certain condition is met, the priority level of the terminal, also the printing jobs associated with that terminal, is changed. Therefore, the changing of the priority level is based on the reception time of the print job and the elapsed time of the print job; see figs. 18-20; paragraphs [0156]-[0166]).

Re claim 15: Murakami et al discloses a product, wherein in said changing step, when reception time of the job which is proxy-printed is earlier than that of a print job which has already existed, the priority of the job which is proxy-printed is raised (i.e. when it is calculated that the elapsed time is greater than a predetermined margin (TK2), a considerable amount of time has passed since the reception of a print job has been instructed. This condition is given the highest priority over a print job that has been instructed to be printed, but has been on the buffer waiting to be printed and has existed on the buffer to be printed for a short time. In figure 18, the reception time is used to calculate the elapsed time (tk). The elapsed time is used to calculate if a print job, based on the reception time and elapsed time, whether a priority level should be raised or not. The priority level is raised in comparison to the other print jobs waiting on the buffer to be processed as well; see figs. 18-20; paragraphs [0156]-[0167]).

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Re claim 16. Murakami et al discloses a printer controller that has a printer perform print processing on print jobs transmitted from a plurality of terminals, an image forming apparatus for performing print processing on the plurality of print jobs, and a terminal that transmits print jobs to the printer controller, comprising:

a plurality of print queues for managing a plurality of jobs (i.e. with a plurality of spaces on the buffer to manage the conditions of the print jobs, it is inherent that the system has a plurality of print queues for managing a plurality of print jobs; see fig. 16 and 17; paragraphs [0161]-[0163]);

scheduling means (14A) for processing a print job inputted to each of the queues on the basis of priorities allocated to the jobs (i.e. the print jobs on the buffer are given a certain priority level. Based on that priority level, the print jobs may be processed immediately or after other print jobs that have a higher priority than the one in question. The print job processing unit (14A) searches for a print job with the highest priority to be processed; see figs. 16-18; paragraphs [0158]-[0170]);

proxy means (15A) for executing proxy printing by moving the job from an original queue to another queue (i.e. when moving a print job from one priority level to another priority level, this is analogous to moving a job from one original queue to another queue. The means for changing the job from one queue to another is the priority changing unit (15A). This changes the time the event is processed and moves the event from a queue, or a location, that demands immediate processing to another

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queue, or location, that may wait after the event with the highest priority is processed; see fig. 18-20; paragraphs [0157]-[0170]); and

priority changing means (15A) for raising the priority of the job when the proxy printing is executed by said proxy means (i.e. the priority changing unit (15A) performs the process of raising the priority level. This priority level is raised when it is found that a print job to be processed has been waiting a considerable amount of time. The reception time gives an indicator of the importance or priority level that a print job receives; see figs. 18-20; see paragraphs [0162]-[0170] and [0182]-[0190]).

Re claim 17: Murakami et al discloses a system, wherein said priority changing means raises the priority on the basis of reception time of the job (i.e. when subtracting the reception time from the current time, the elapsed time can be calculated from that result. Then, the elapsed time is compared to certain reference times and if a certain condition is met, the priority level of the terminal, also the printing jobs associated with that terminal, is changed. Therefore, the changing of the priority level is based on the reception time of the print job and the elapsed time of the print job; see figs. 18-20; paragraphs [0156]-[0166]).

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chad Dickerson whose telephone number is (571)-270-1351. The examiner can normally be reached on Mon. thru Thur. 9:00-6:30 Fri. 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Aung Moe can be reached on (571)- 272-7314. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CD/ (C) Chad Dickerson April 23, 2007

UPERVISORY DATENT EXAMINE